

CLAIMS

1. Mycotoxin adsorbent, containing

a) an organically modified (organophilic) layered silicate, in which quaternary onium compounds with at least one long chain C₁₀ to C₂₂ alkyl group and at least one aromatic substituent are used for modification.

or

b) a mixture of a nonorganically modified layered silicate and a layered silicate organically modified to at least 75%, referred to the total cation exchange capacity (CEC).

2. Mycotoxin adsorbent according to Claim 1, characterized by the fact that a quaternary ammonium compound is used as quaternary onium compound, especially with a C₁₄ to C₁₈ alkyl group.

3. Mycotoxin adsorbent according to Claim 1 or 2, characterized by the fact that stearylbenzyldimethylammonium chloride, coconut alkyldimethylbenzylammonium chloride, dimethyllaurylbenzylammonium chloride, distearyltrimethylbenzylammonium chloride or quaternized tallow imidazolinium methosulfate is used as quaternary onium compound.

4. Mycotoxin adsorbent according to one of the preceding claims, characterized by the fact that a smectitic clay mineral is used as layered silicate.

5. Mycotoxin adsorbent according to one of the preceding claims, characterized by the fact that a montmorillonite-containing clay, especially bentonite, is used as layered silicate.

6. Mycotoxin adsorbent according to one of the Claims 1 a), 2 to 5, characterized by the fact that no more than 75% of the exchangeable cations (CEC) of a layered silicate are exchanged with quaternary onium compounds.

7. Mycotoxin adsorbent according to one of the Claims 1 a), 2 to 6, characterized by the fact that 2 to 30%, preferably 2 to 15%, and especially 2 to 10%, of the exchangeable cations of the layered silicate are exchanged with quaternary onium compounds.
8. Mycotoxin adsorbent according to one of the Claims 1 b), 2 to 5, characterized by the fact that the mixture contains 0.1 to 50 wt.%, especially 0.5 to 20 wt.%, and preferably 0.5 to 10 wt.%, of organically modified layered silicate.
9. Mycotoxin adsorbent according to one of the Claims 1 b), 4, 5, 8, characterized by the fact that quaternary onium compounds with at least one long chain C₁₀ to C₂₂ alkyl group and at least one aromatic substituent are used for organic modification.
10. Feed additive containing a mycotoxin adsorbent according to one of the preceding claims.
11. Premix for production of a mycotoxin adsorbent or feed additive according to one of the Claims 1 to 9, containing more than 50% organically modified layered silicate.
12. Use of the mycotoxin adsorbent according to one of the Claims 1 to 9 for adsorption of mycotoxins in feeds.

A' added